

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002247

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G09G3/20 G02F1/1362 G02F1/1345 G02F1/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 G09G G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 241827 A (INTERNATL BUSINESS MACH CORP <IBM>), 8 September 2000 (2000-09-08)	1-6,8-17
Y	abstract the whole document	7
P,X	& US 6 624 868 B1 (KIYOOKA FUMITOSHI ET AL) 23 September 2003 (2003-09-23) abstract column 2, line 6 - column 5, line 30; claims 1-4,13,21; figures 1-4	1-6,8-17
Y	US 2003/117359 A1 (PARK HYONG YERL) 26 June 2003 (2003-06-26) paragraphs '0009!', '0034! - '0036!; figure 4	7
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

26 October 2004

Date of mailing of the International search report

05/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 467 210 A (KISHIGAMI MASAMITSU) 14 November 1995 (1995-11-14)	1-6,8-17
Y	abstract column 3, line 46 - column 8, line 28; claims 1,11,13,15; figures 2,4,5	7
X	US 6 567 064 B1 (PARK KWANG GYUN ET AL) 20 May 2003 (2003-05-20) abstract column 1, line 14 - column 4, line 48; figures 1,3	1,13
A	US 6 229 510 B1 (CHOI MIN-SUNG ET AL) 8 May 2001 (2001-05-08) column 6, line 19 - column 8, line 27; figures 8,10	1-13
A	US 5 889 568 A (SERAPHIM DONALD P ET AL) 30 March 1999 (1999-03-30) abstract column 6, lines 53-62; figures 6,13 column 8, lines 6-10 column 9, lines 23-30 column 14, lines 20-24 column 16, lines 7-24	7-9, 15-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002247

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 2000241827	A	08-09-2000	US	6624868 B1		23-09-2003
US 6624868	B1	23-09-2003	JP	2000241827 A		08-09-2000
US 2003117359	A1	26-06-2003	KR	2003054897 A		02-07-2003
US 5467210	A	14-11-1995	JP	6242462 A		02-09-1994
			JP	3237038 B2		10-12-2001
			JP	6342166 A		13-12-1994
US 6567064	B1	20-05-2003	KR	2001028536 A		06-04-2001
US 6229510	B1	08-05-2001	KR	271092 B1		01-11-2000
			JP	11133379 A		21-05-1999
			TW	505814 B		11-10-2002
US 5889568	A	30-03-1999	US	6262696 B1		17-07-2001